
VEHICLE DYNAMICS TESTING

TEST OBJECTIVE

Determine each vehicle's high-speed pursuit or emergency handling characteristics and performance in comparison to the other vehicles in the test group. The course used is a 2-mile road-racing type configuration, containing hills, curves, and corners. The course simulates actual conditions encountered in pursuit or emergency driving situations in the field, with the exception of other traffic. The evaluation is a true test of the success or failure of the vehicle manufacturers to offer vehicles that provide the optimum balance between handling (suspension components), acceleration (usable horsepower), and braking characteristics.

TEST METHODOLOGY

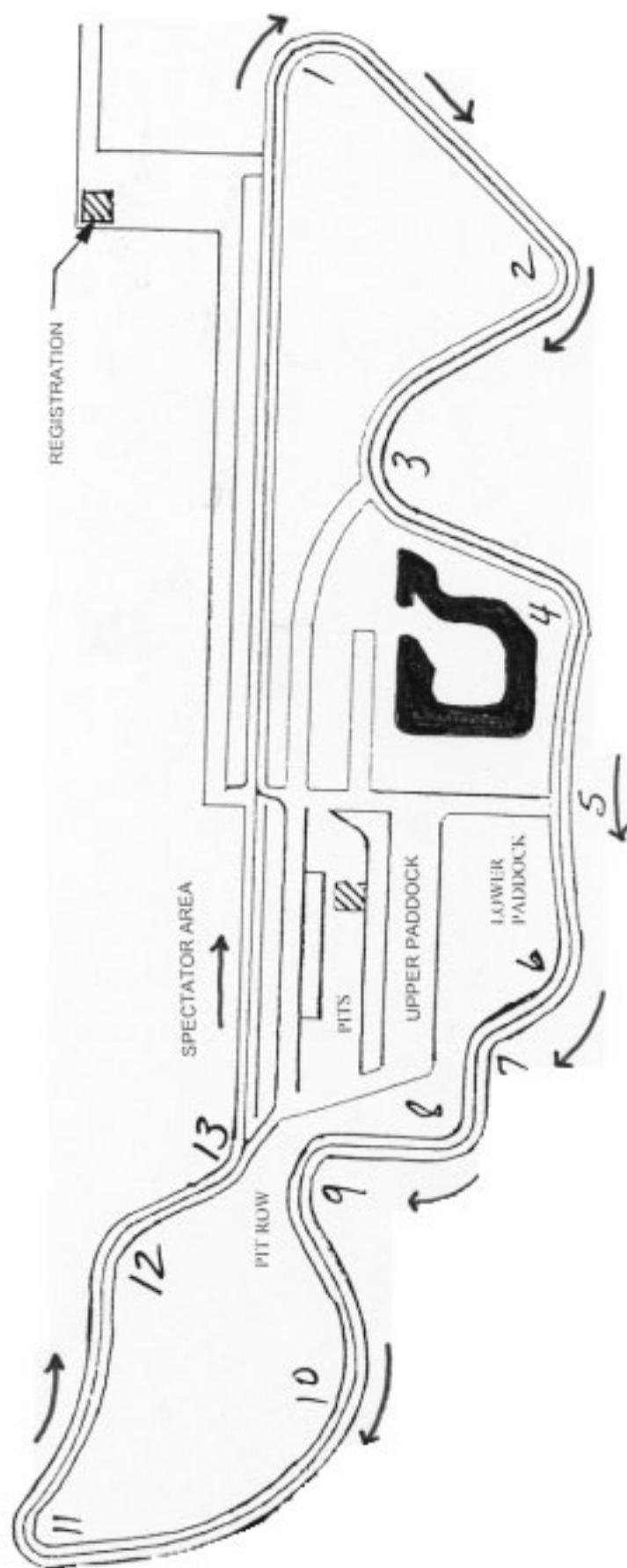
Each vehicle is driven over the course a total of 32 timed laps, using four separate drivers, each driving an 8 lap series. The final score for the vehicle is the combined average (from the 4 drivers) of the 5 fastest laps for each driver during the 8 lap series.



Grattan Raceway Park



7201 Lessiter
Belding, Michigan 48809



Arrows indicate
Michigan State Police
Road Test Course and
Direction of Travel.

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Vehicles	Drivers	Lap 1	Lap 2	Lap 3	Lap 4	Lap 5	Average
Ford Police Interceptor 3:27 SPFI	GROMAK	01:40.40	01:40.50	01:40.50	01:40.60	01:40.60	01:40.52
	ROGERS	01:40.60	01:41.00	01:41.00	01:41.20	01:41.30	01:41.02
	WILSON	01:40.50	01:40.90	01:41.40	01:41.50	01:41.50	01:41.16
	FLEGEL	01:40.30	01:40.50	01:40.50	01:40.60	01:40.90	01:40.56
Overall Average							01:40.81
Ford Police Interceptor 3:55 SPFI	GROMAK	01:39.80	01:40.00	01:40.00	01:40.10	01:40.30	01:40.04
	ROGERS	01:40.80	01:40.80	01:40.90	01:40.90	01:40.90	01:40.86
	WILSON	01:40.50	01:40.60	01:40.90	01:41.00	01:41.10	01:40.82
	FLEGEL	01:39.40	01:39.70	01:39.80	01:39.80	01:39.90	01:39.72
Overall Average							01:40.36
Chevrolet Impala 9C1 3.9L SPFI	GROMAK	01:40.80	01:41.20	01:41.40	01:41.40	01:41.60	01:41.28
	ROGERS	01:42.30	01:42.30	01:42.60	01:42.70	01:42.80	01:42.54
	WILSON	01:42.20	01:42.40	01:42.70	01:43.40	01:43.40	01:42.82
	FLEGEL	01:42.20	01:42.20	01:42.30	01:42.50	01:42.50	01:42.34
Overall Average							01:42.25
Chevrolet Impala E85 3.9L SPFI	GROMAK	01:41.60	01:41.80	01:42.00	01:42.00	01:42.10	01:41.90
	ROGERS	01:41.60	01:41.80	01:41.80	01:41.90	01:42.00	01:41.82
	WILSON	01:43.10	01:43.20	01:43.30	01:43.30	01:43.40	01:43.26
	FLEGEL	01:41.60	01:41.70	01:42.00	01:42.00	01:42.30	01:41.92
Overall Average							01:42.22
Chevrolet Tahoe PPV 2WD 5.7L SPFI	GROMAK	01:42.40	01:42.60	01:42.70	01:42.90	01:43.00	01:42.72
	ROGERS	01:43.50	01:43.70	01:44.20	01:44.20	01:44.30	01:43.98
	WILSON	01:42.50	01:42.60	01:42.80	01:42.90	01:43.00	01:42.76
	FLEGEL	01:42.30	01:42.40	01:42.40	01:42.40	01:42.80	01:42.46
Overall Average							01:42.98
Chevrolet Tahoe PPV 2WD E85 5.7L SPFI	GROMAK	01:42.50	01:42.60	01:42.80	01:42.80	01:42.90	01:42.72
	ROGERS	01:43.10	01:43.20	01:43.30	01:43.30	01:43.50	01:43.28
	WILSON	01:42.10	01:42.50	01:42.50	01:42.70	01:43.20	01:42.60
	FLEGEL	01:41.50	01:41.60	01:41.70	01:42.00	01:42.10	01:41.78
Overall Average							01:42.60
Dodge Charger 3.5L SPFI	GROMAK	01:39.70	01:39.80	01:39.80	01:39.80	01:40.10	01:39.84
	ROGERS	01:40.70	01:40.70	01:41.00	01:41.00	01:41.20	01:40.92
	WILSON	01:40.50	01:40.50	01:40.60	01:40.80	01:40.80	01:40.64
	FLEGEL	01:40.10	01:40.10	01:40.10	01:40.30	01:40.50	01:40.22
Overall Average							01:40.40
Dodge Charger 5.7L SPFI	GROMAK	01:36.80	01:36.80	01:37.20	01:37.30	01:37.30	01:37.08
	ROGERS	01:36.90	01:37.30	01:37.40	01:37.50	01:37.60	01:37.34
	WILSON	01:37.20	01:37.80	01:37.90	01:38.40	01:38.50	01:37.96
	FLEGEL	01:35.70	01:35.80	01:36.00	01:36.10	01:36.10	01:35.94
Overall Average							01:37.08

2009 Vehicle Dynamics

